APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS OF DATA FROM FIXED STATIONS IN THE MUSCATATUCK RIVER WATERSHED

Station MU 20

	Valid N	Mean	Confid -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std Dev	Standard Error	Skewness	Std Err Skewness	Kurtosis	Std Err Kurtosis
Alkalinity (mg/l)	75	131.1467	122.5877	139.7057	125	9836	69	259	112	148	190	36	1383.857	37.20022	4.295512	1.049427	0.2774	2.235792	0.548211
Ammonia (mg/l as N)	75	0.102667	0.084537	0.120796	0.05	7.7	0.05	0.4	0.05	0.1	0.35	0.05	0.006209	0.078797	0.009099	1.740185	0.2774	2.643536	0.548211
BOD (mg/l)	37	1.348649	1.076685	1.620612	1.1	49.9	0.5	3.3	0.5	1.7	2.8	1.2	0.665345	0.815687	0.134098	0.870919	0.387589	-0.0572	0.758719
COD (mg/l)	0																		
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	75	1.043333	0.887925	1.198741	0.9	78.25	0.05	3.4	0.6	1.4	3.35	0.8	0.456239	0.675454	0.077995	1.244146	0.2774	1.922353	0.548211
Total Phosphorus (mg/l as P)	75	0.124	0.100859	0.147141	0.1	9.3	0.04	0.82	0.09	0.12	0.78	0.03	0.010116	0.100579	0.011614	5.007075	0.2774	31.64667	0.548211
Total Solids (mg/l)	75	266.76	251.8193	281.7007	255	20007	172	594	232	276	422	44	4216.861	64.93736	7.498832	2.430002	0.2774	9.029702	0.548211
Suspended Solids (mg/l)	75	30.90667	23.72283	38.0905	23	2318	2	200	15	35	198	20	974.8966	31.22333	3.60536	3.216904	0.2774	13.43243	0.548211
Dissolved Solids (mg/l)	21	208.4286	188.6679	228.1892	207	4377	144	298	168	228	154	60	1884.557	43.41149	9.473163	0.501508	0.501195	-0.11805	0.971941
Sulfate (mg/l)	21	23.85714	20.36878	27.34551	24	501	11	42	19	29	31	10	58.72857	7.663457	1.672303	0.275104	0.501195	0.178527	0.971941
TKN (mg/l as N)	21	0.709524	0.573038	0.846011	0.6	14.9	0.4	1.6	0.6	0.8	1.2	0.2	0.089905	0.299841	0.065431	1.977481	0.501195	3.917368	0.971941
E. coli (CFU/100ml)	73	805.2055	225.1945	1385.216	100	58780	5	18000	50	310	17995	260	6179861	2485.933	290.9564	5.416053	0.281029	31.55369	0.555223
TOC (mg/l)	21	5.404762	4.528412	6.281112	4.8	113.5	2.6	11.7	4.4	6.3	9.1	1.9	3.706476	1.925221	0.420118	1.94779	0.501195	5.115155	0.971941
Hardness (mg/l)	75	164.44	153.7051	175.1749	164	12333	73	308	132	186	235	54	2176.925	46.65753	5.387548	1.028793	0.2774	2.222364	0.548211
Chloride (mg/l)	21	15.97619	11.27948	20.6729	13	335.5	2.5	42	9	19	39.5	10	106.4619	10.31804	2.25158	1.4276	0.501195	1.703218	0.971941
Dissolved Oxygen (mg/l)	59	7.675593	7.105214	8.245972	7.41	452.86	4.22	13.4	6.3	9.11	9.18	2.81	4.790415	2.188702	0.284945	0.568077	0.311176	-0.03402	0.613257
pH	60	7.522167	7.421633	7.6227	7.54	451.33	6.43	8.6	7.325	7.755	2.17	0.43	0.151455	0.389172	0.050242	-0.24793	0.308694	1.275414	0.608492
Copper (ug/l)	21	2.819048	2.20065	3.437446	2	59.2	2	5.9	2	4.4	3.9	2.4	1.845619	1.358536	0.296457	1.201973	0.501195	-0.27362	0.971941
Iron (ug/l)	21	1487.143	874.6344	2099.651	1200	31230	430	6400	840	1500	5970	660	1810631	1345.597	293.6333	2.827792	0.501195	9.043708	0.971941
Zinc (ug/l)	21	8.683333	5.703874	11.66279	6.6	182.35	2.25	27	5.1	9	24.75	3.9	42.84308	6.545463	1.428337	1.797111	0.501195	2.971814	0.971941